

**[Abstract]**

The present invention relates to a system for tilting polarization and steering main beam of airship antenna comprises: a 1<sup>st</sup> GPS receiver, which is located in the airship; a 2<sup>nd</sup> GPS receiver, which is located in the ground station; an airship antenna database for extracting the radiation pattern information of airship antenna and polarization information according to the posture of the antenna based on the position information of the airship; a ground station antenna database for extracting the radiation pattern information of ground station antenna and polarization information according to the posture of the antenna based on the position information of the ground station; a polarization and main beam direction correction operating device for computing the correction value of polarization and main beam direction of the airship antenna and the ground station antenna based on the position information of the airship and the ground station received from the 1<sup>st</sup> GPS receiver and the 2<sup>nd</sup> GPS receiver; and an airship antenna controller for correcting the posture of the airship antenna by controlling tilting the polarization and steering the main beam direction of the airship antenna based on the corrected value received from the polarization and main beam direction correction operating device.